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- (51) 国際特許分類: C08J 5/18 // C08L 29:04 (74) 代理人: 朝日奈 宗太, 外(ASAHI, Na, Sohta et al.); 〒540-0012 大阪府 大阪市 中央区谷町二丁目 2 番 2 号 N S ビル Osaka (JP).
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- (71) 出願人 (米国を除く全ての指定国について): 日本合成化学工業株式会社 (THE NIPPON SYNTHETIC CHEMICAL INDUSTRY CO., LTD.) [JP/JP]; 〒531-6029 大阪府 大阪市北区 大淀中一丁目 1 番 8 8 号 Osaka (JP).
- (84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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- (75) 発明者/出願人 (米国についてのみ): 北村 秀一 (KITAMURA, Shuichi) [JP/JP]; 〒567-0052 大阪府 茨木市 室山二丁目 1 3 番 1 号 日本合成化学工業株式会社 中央研究所内 Osaka (JP). 水谷 知由 (MIZUTANI, Tomoyoshi) [JP/JP]; 〒567-0052 大阪府 茨木市 室山二丁目 1 3 番 1 号 日本合成化学工業株式会社 中央研究所内 Osaka (JP).
- 添付公開書類:
— 国際調査報告書
- 2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: POLY(VINYL ALCOHOL) BASED FILM

(54) 発明の名称: ポリビニルアルコール系フィルム

(57) Abstract: A poly(vinyl alcohol) based film which dissolves in water at 20 °C within 10 min, as defined in the specification, and exhibits a ratio (α/β) of the storage elastic modulus (α) at 20 °C in a dry atmosphere to the storage elastic modulus (β) at 20 °C in an atmosphere having a RH of 80 %. The poly(vinyl alcohol) based film has excellent solubility in cold water and is reduced in the change of appearance, and further exhibits excellent long-term durability with respect to the solubility in cold water.

(57) 要約:

20℃の水に10分以内で溶解するフィルムであって、かつ、該フィルムの20℃、乾燥雰囲気下での貯蔵弾性率(α)と20℃、80%RH条件下での貯蔵弾性率(β)との比(α/β)が10以下であるポリビニルアルコール系フィルムであり、優れた冷水溶解性および高湿度下でのフィルムの外観変化が少なく、長期間保存しても冷水溶解性の低下が少ないという優れた耐久性を有する。

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/13657

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C08J5/18//C08L29:04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C08J5/18, C08L29/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 9-324096 A (Dai-Ichi Kogyo Seiyaku Co., Ltd.), 16 December, 1997 (16.12.97), Claims; page 3; Par. Nos. [0027] to [0028]; page 4, table 1 (Family: none)	1-6, 9, 10 7, 8
Y	JP 2-151639 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 11 June, 1990 (11.06.90), Claims; page 3, upper left column, line 14 to upper right column, line 1 (Family: none)	7, 8

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"&" document member of the same patent family

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 59-152852 A (Kuraray Co., Ltd.), 31 August, 1984 (31.08.84), Claims (Family: none)	1-10
A	JP 8-41427 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 13 February, 1996 (13.02.96), Claims (Family: none)	1-10
A	JP 9-302161 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 25 November, 1997 (25.11.97), Claims (Family: none)	1-10
A	JP 2001-192011 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 17 July, 2001 (17.07.01), Claims (Family: none)	1-10
P,A	JP 2002-275339 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 25 September, 2002 (25.09.02), Claims (Family: none)	1-10

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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P,A	JP 2002-275339 A (The Nippon Synthetic Chemical Industry Co., Ltd.), 25 September, 2002 (25.09.02), Claims (Family: none)	1-10